

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-315135

(43)Date of publication of application : 29.11.1996

(51)Int.Cl.

G06T 7/00

(21)Application number : 07-120296

(71)Applicant : MEIDENSHA CORP

(22)Date of filing : 19.05.1995

(72)Inventor : TAKANO HIROSHIGE

KAWADA SOICHIRO

KOBAYASHI MINORU

OGIYAMA NAGISA

SERI NOBUYUKI

NAKAMA YUKIO

HIRABAYASHI MASAMICHI

(54) SEGMENT DETECTING METHOD FOR DRAWING INPUT DEVICE

(57)Abstract:

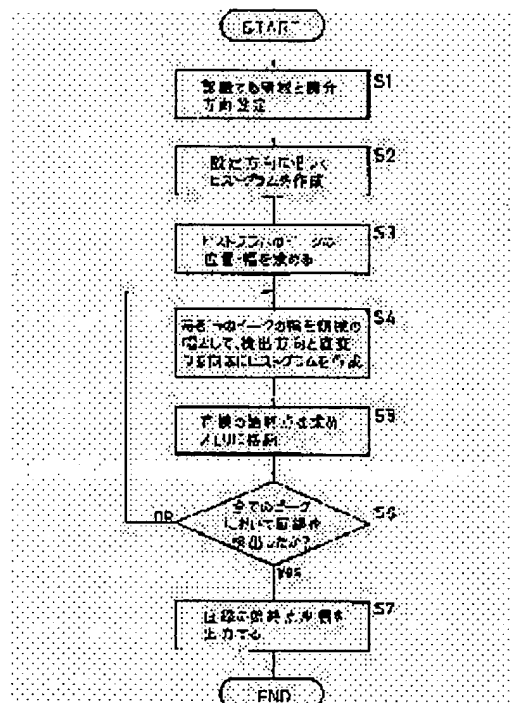
PURPOSE: To precisely recognize parallel lines even if they are close to each other.

CONSTITUTION: In a step S1, an area to be recognized from image information and the direction of a segment are set. In a step S2, the frequency distribution

(histogram) of an image in the set direction in the set area is generated. In a step S3, the positions of peaks of the histogram are detected and the mean width of the peaks is found. In a step S4, a histogram is generated in an area which has the same height as the original height

and is as wide as one peak at a right angle to the direction wherein the segment is detected. Then, a straight line is detected from two orthogonal histograms in a step S5 and data on it are stored in a memory. In a

step S6, it is judged whether or not the straight line is detected as to all the peaks, and in case of 'YES', the process advances to a step S7 to output the start and end point coordinates of the straight line.



LEGAL STATUS

[Date of request for examination] 19.01.2001

[Date of sending the examiner's decision of rejection] 01.04.2003

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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